# EXHIBIT F

### Realize your vision

## Samsung SDS **EMM**

**Installation Guide** 

Solution version 2.2.5

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Manual version 2.2.5i

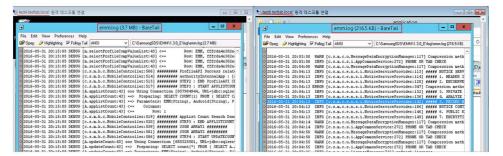
**SAMSUNG SDS** 

- 4. If the device enrollment is successful, perform unenrollment.
- 5. Remotely access the server where a log is created in Step 3, and then stop the EMM service.
- Check Service
- 6. Perform enrollment on the mobile device again and check if a log is created on the server where the EMM service has not been stopped.
- 7. Make sure enrollment is successful from the terminal.

#### **Downloading applications**

Download an application from the App Store and delete it from the terminal to proceed with the failover testing.

- Pre-Test
- 1. Prepare a device with the EMM service activated.
- 2. Remotely access each server where EMM is installed, and monitor both of the EMM server logs by using a program such as a tail program. Restrict the use of the EMM server to checking the logs only for the test purposes.



## **Appendix E Installation Environment File**

This describes each section of the EMM{Version} H SETUP.ini.

#### **MULTI\_TENANCY**

| Properties | Description   | Default<br>Value | Location                                       |
|------------|---|------------------|--|
| ENABLE     | Whether to use multi-<br>tenant mode                              | false            | Path to file: C:\SamsungSDS\EMM\{Version}\wa   |
|            | <ul><li>true: Multi-tenant</li><li>false: Single-tenant</li></ul> |                  | r\WEBINF\classes\config\defaul<br>t-config.xml |

#### Server\_URL

| Properties        | Description   | Default<br>Value          | Location   | Notes                            |
|-------------------|---|---------------------------|--|----------------------------------|
| HOST              | IP address for EMM server installation                                  | localhost                 | • Path to file: C:\SamsungSDS\EMM\   |                                  |
| PORT              | HTTP Port of EMM<br>WAS   | 35080                     | <pre>{Version}\war\WEB-<br/>INF\classes\config\<br/>default-config.xml</pre> |                                  |
| DOMAIN_<br>NAME   | Public IP or domain<br>address with external<br>access                  | demo.sm<br>artemm.c<br>om | • The part that comes after common/emm:  - hostname                          | The value<br>must be<br>changed. |
| HTTPS_PO<br>RT    | HTTPS Port of EMM server  | 35443                     | <ul><li>httpPort</li><li>httpsPort</li></ul>                                 |                                  |
| LOOPBACK<br>_IP   | Loopback IP for EMM server  | 127.0.0.1                 | <ul><li>loopbacklp</li><li>loopbackPort</li></ul>                            |                                  |
| LOOPBACK<br>_PORT | Loopback Port for<br>EMM server   | 35080                     |  |                                  |
| EXTERNAL_<br>PORT | • Single-server:<br>HTTPS Port with<br>external access to<br>EMM server | 35443                     |  |                                  |
|                   | • Multi-server: HTTPS<br>Port with external<br>access to Web server     |                           |  |                                  |

#### **DATABASE**

| Properties      | Description                 | Default<br>Value   | Location   |
|-----------------|-----------------------------|--------------------|--|
| TYPE            | Type of database            | MSSQL              | • Path to file: C:\SamsungSDS\EMM\{Version} \war\WEB-INF\classes\ config\default-config.xml • The part comes after database/type: - type |
| HOST            | Server address for MSSQL    | localhost          | • Path to file:  |
| PORT            | TCP/IP port for MSSQL       | 1433               | <pre>C:\SamsungSDS\EMM\{Versio n}\war\WEB-</pre>   |
| NAME            | Database name               | EMM{Versi<br>on}DB | <pre>INF\classes\config\defaul t-config.xml</pre>  |
| USER            | Database access user ID     | EMM{Versi<br>on}   | • The part comes after common/datasource/emm: - driver   |
| PASSWORD        | Database access<br>password |                    | – url<br>– url<br>– username   |
| SA_USER         | MS SQL admin ID             | sa                 | - password   |
| SA_PASSWO<br>RD | MS SQL admin password       |                    |  |

#### **PUSH\_SAGID**

| Properties | Description   | Default<br>Value | Location  |
|------------|---|------------------|---|
| SAGID      | The ID used for the SA module included in the application registered in Push server.  • Duplicate SAGIDs are not allowed in the environment with a single Push server.  • A ticket for the SAGID set is needed. | SDSEMMSA         | C:\SamsungSDS\PushConfig<br>\PushSA\resources\sa\prope<br>rties\sa.properties |

#### **PUSH\_APID**

Push APID is the ID used for the application that provides Push service. EMM uses EMM Agent (EMMA) and EMM Client (EMMC) as default.

| Properties | Description  | Default<br>Value | Location  |
|------------|--|------------------|---|
| APID       | The ID used for Push service application.  Duplicate APIDs are not allowed in the environment with a single Push server. | EMMA             | C:\SamsungSDS\PushConfig\PushSA\resources\sa\properties\sa.properties |

#### **GENERAL\_CONFIG**

Specify the basic information on the Push operating environment.

- **USE\_L4**: Specify whether to implement load balancing with L4 Network equipment for multiple Push server instances (Proxy or Push CM module).
- **SMB\_RUN\_MODE**: Specify the operating mode for the Push server.
  - NORMAL: Install Push CM only in DMZ.
  - PROXY: Install Push Proxy in DMZ and Push CM in Intranet zone.

| Properties       | Description   | Default<br>Value | Properties   |
|------------------|---|------------------|--|
| USE_L4           | Whether to use L4. • true: Use • false: Do not use                      | FALSE            | <pre>C:\SamsungSDS\Push\{Version}\ bin\push_cm_start.bat</pre> |
| SMB_RUN_<br>MODE | Whether to activate<br>Proxy mode<br>• true: Use<br>• false: Do not use | NORMAL           |  |

| Properties       | Description   | Default<br>Value | Properties   |
|------------------|---|------------------|--|
| USE_L4           | Whether to use L4.  • true: Use  • false: Do not use                    | FALSE            | <pre>C:\SamsungSDS\Push\{Version}\ bin\push_cm_start.bat</pre> |
| SMB_RUN_<br>MODE | Whether to activate<br>Proxy mode<br>• true: Use<br>• false: Do not use | NORMAL           |  |

#### **CM\_JAVA\_CONFIG**

Configure environment for JAVA on which Push CM is operated.

| Properties      | Description             | Default<br>Value | Location                                     |
|-----------------|-------------------------|------------------|--|
| JAVA_MAX_MEMORY | Maximum memory for JAVA | 1g               | C:\SamsungSDS\Push\<br>{Version}\bin\push_cm |
| JAVA_MIN_MEMORY | Minimum memory for JAVA | 512M             | _start.bat                                   |

#### CM\_OS\_TYPE

Set the OS for server platform on which Push CM is operated.

| Properties | Description               | Default Value | Location  |
|------------|---------------------------|---------------|---|
| OS_TYPE    | OS type of Push<br>server |               | C:\SamsungSDS\Push\{Version} \bin\push_cm_start.bat |

#### CM\_WINDOWS\_OS\_TYPE

Specify the type of OS for Push CM operated on Microsoft Windows.

| Properties          | Description                            | Default<br>Value | Location  |
|---------------------|--|------------------|---|
| WINDOWS_OS_<br>TYPE | The type of Windows<br>for Push server | 64BIT            | <pre>C:\SamsungSDS\Push\{Vers ion}\bin\push_cm_start. bat</pre> |

#### **CM\_CONFIG**

Set the environment for the installation and operation of Push CM.

- **CM\_EHOSTIP**: The IP address on the server where Push CM is installed. The external public IP address accessible on a device.
- **CM\_IHOSTIP**: The internal server IP address for communication between Push CM instances.
- XXX\_INSTANCE\_COUNT: The number of Push components (DCM, SCM, PS, and ECM)
- XXX\_TCP\_PORT: Tcp Port number for communication with Push external components including Push Device Agent(DA) and Service Agent(SA).

• XXX\_UDP\_PORT: UDP Port number for communication between Push CM instances

| Properties             | Description                                 | Default   | Location                              |
|------------------------|---|-----------|---------------------------------------|
|                        |   | Value     |                                       |
| CM_EHOSTIP             | External CM IP                              | 127.0.0.1 | C:\SamsungSDS\Pus                     |
| CM_IHOSTIP             | Internal CM IP                              | 127.0.0.1 | h\{Version}\bin\p<br>ush cm start.bat |
| DCM_INSTANCE_C<br>OUNT | The number of DCM instances                 | 1         |                                       |
| DCM_TCP_PORT           | DCM TCP Port communicating with the outside | 35001     |                                       |
| DCM_UDP_PORT           | DCM UDP Port communicating with the inside  | 35011     |                                       |
| SCM_INSTANCE_C<br>OUNT | The number of SCM instances                 | 1         |                                       |
| SCM_TCP_PORT           | SCM TCP Port communicating with the outside | 35002     |                                       |
| SCM_UDP_PORT           | SCM UDP Port communicating with the inside  | 35012     |                                       |
| ECM_INSTANCE_C<br>OUNT | The number of ECM instances                 | 1         |                                       |
| ECM_TCP_PORT           | ECM TCP Port communicating with the outside | 35003     |                                       |
| ECM_UDP_PORT           | ECM UDP Port communicating with the inside  | 35013     |                                       |
| PS_INSTANCE_CO<br>UNT  | The number of PS instances                  | 1         |                                       |
| PS_TCP_PORT            | PS TCP Port communicating with the outside  | 35000     |                                       |
| PS_UDP_PORT            | PS UDP Port communicating with the inside   |           |                                       |
| ICM_INSTANCE_C<br>OUNT | The number of ICM instances                 | 1         |                                       |
| ICM_TCP_PORT           | ICM TCP Port communicating with the outside | 35004     |                                       |
| ICM_UDP_PORT           | ICM UDP Port communicating with the inside  | 35014     |                                       |

#### PROXY\_HOSTIP

Set the environment for installation and operation of Push Proxy.

- **PROXY\_EHOSTIP**: The IP address on the server where Push Proxy is installed. The external public IP address accessible on a device.
- **PROXY\_IHOSTIP**: The internal IP address of the server where Push Proxy is installed for Push CM access.

- XXX\_ETCP\_PORT: TCP Port number for communication between the Push external components, including the Push Device Agent (DA) and Service Agent (SA).
- XXX\_ITCP\_PORT: TCP Port number that accepts access from Push CM instances.

| Properties    | Description       | Default<br>Value | Location                               |
|---------------|-------------------|------------------|--|
| PROXY_EHOSTIP | Proxy external IP |                  | C:\SamsungSDS\PushProxy\               |
| PROXY_IHOSTIP | Proxy internal IP |                  | {Version}\bin\push_proxy_<br>start.bat |
| DPP_ETCP_PORT | DPP external port | 35101            |  |
| DPP_ITCP_PORT | DPP internal port | 35111            |  |
| PPP_ETCP_PORT | PPP external port | 35100            |  |
| PPP_ITCP_PORT | PPP internal port | 35110            |  |
| EPP_ETCP_PORT | EPP external port | 35103            |  |
| EPP_ITCP_PORT | EPP internal port | 35113            |  |

#### AT\_SERVER\_JAVA CONFIG

Set the environment for JAVA on which AppTunnel is operated.

| Properties      | Description                | Defau<br>lt<br>Value | Location  |  |
|-----------------|----------------------------|----------------------|---|--|
| JAVA_MAX_MEMORY | Maximum memory for JAVA    | 1g                   | <pre>C:\SamsungSDS\AT\{Versio n}\at-server\bin\</pre> |  |
| JAVA_MIN_MEMORY | Minimum memory<br>for JAVA | 512M                 | at_server_start.bat                                   |  |

#### AT\_SERVER\_OS\_TYPE

Set the OS for server platform on which AppTunnel is operated.

| Properties | Description                     | Default<br>Value | Location  |
|------------|---------------------------------|------------------|---|
| OS_TYPE    | The OS type of AppTunnel server | WINDOWS          | <pre>C:\SamsungSDS\AT\{Version}\a t-server\bin\ at_server_start.bat</pre> |

#### AT\_SERVER\_WINDOWS\_OS\_TYPE

Specify the type of OS for AppTunnel operated on Microsoft Windows.

| Properties      | Description                                     | Default<br>Value | Location  |
|-----------------|---|------------------|---|
| WINDOWS_OS_TYPE | The type of<br>Windows for App<br>Tunnel server | 64BIT            | <pre>C:\SamsungSDS\AT\{Vers ion}\at-server\bin\ at_server_start.bat</pre> |